

NETLink Storm

Robust Store and Forward Solution

COFDM – Video, Audio Telemetry and IP Products

June 2011 Data Sheet

The most important thing we build is trust

COBHAM



The NETLink Storm is the next generation robust solution for transmitting video and audio across both private and public networks, based on the successful NETLink. In addition, it provides an all-in-one solution allowing for quick indoor as well as outdoor deployment, with integral support for ADSL, dual 3G networks, WiFi and COFDM communication.

The NETLink Storm, which features Cobham technology at its core, allows Cobham Tactical Communications and Surveillance equipment and analogue cameras to be connected to IP networks via live streaming and providing 24/7 store and forward.

An all-in-one case solution, NETLink Storm is a tailored product for remote surveillance, aimed specifically at the covert intelligence gathering market. Its compact, sealed, robust Pelicase design enables secure, rapid-drop deployment, and features an internal screen for camera positioning. Power up and down can be controlled locally or via remote control and, if the case is tampered with or a hard wired trigger occurs, alerts can be sent by SMS or email.

NETLink Storm can be set to stream at rates suitable for either private or public networks. In private network mode it will stream full frame rate, full resolution video for maximum quality. When connected to public networks where the data rates are limited, it will produce a reduced frame rate and resolution stream at a data rate appropriate for the network.

NETLink Storm uses AES128 or AES256 encryption to ensure the security of the video data. These transmissions can then be decoded in software using the NETEPLAY-S application, or in hardware using the NETIPHW IP Hardware decoder¹. The NETLink Storm also has an RS232 output suitable for control of any PTZ

camera that might be connected to it.

The NETLink Storm provides a number of very powerful features:

- All-in-one robust case solution. The NETLink Storm is constructed for outdoor deployment, being completely waterproof and sealed when the lid is closed. The external Amphenol connectors allow robust connections to cameras, triggers, antennas and power. The large heat sinks allow for heat dissipation and the case contains everything needed for both short- and long-term deployment.
- Built-in auto switch ADSL/dual-3G/WiFi. The NETLink Storm includes integral support for ADSL, WiFi and dual network 3G communication with fast automatic switch between them to ensure maximum failover connectivity. Any of the communication methods can be switched on and off as required.
- Dual hotswap hard drives. Two built-in hard drives allow the NETLink Storm to act as an advanced store and forward solution, recording full evidence quality audio and video locally, while streaming live across any network.
- High speed local download via WiFi link. If the NETLink Storm is deployed without physical access, the built-in WiFi connection can be activated temporarily and the full quality audio and video can be downloaded covertly from a distance.
- Remote control for local power down/up. The remote control can be used to power down the NETLink Storm completely to conserve power, and power up only when needed.
- Built-in battery pack. The integral battery will allow the NETLink Storm to run for a few hours without external power for either short-term deployments or to guard against interruptions due to power failures.

¹ Private LAN only.

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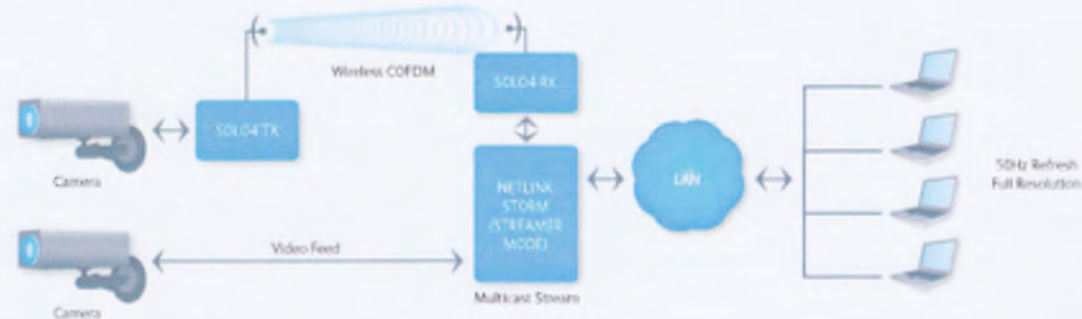
- Triggers and tamper alerts via SMS and email. The NETLink Storm comes with a built-in tamper alert sensor, as well as support for external triggers. If the box is disturbed or moved at any point, an alert trigger is generated, which can be sent to the right person via SMS and email, as well as being logged as part of the recording.
 - Screen for camera positioning. The internal screen can be used for camera positioning and can be switched off completely to conserve power.
 - Local video link via COFDM transmitter. The NETLink Storm includes a COFDM transmitter for wireless high quality video links to other Cobham Surveillance equipment.
- NETLink Storm is a multi-cast product when used on a private LAN or a uni-cast product when used over the internet.

Standard NETLink features

- Input from analogue camera or Cobham COFDM Receiver
- Full quality streaming onto private networks
- Adaptive streaming across contended public networks
- Supports transmission over 3G/2G wireless networks
- Better image quality with additional user configuration
- Different access levels for supervisor, gold and silver users
- PTZ ports to support local camera
- PTZ control for cameras supporting Forward vision, Sony Visca, Pelco B and Pelco P.
- Support for up to 16 cameras via Kramer video switch
- AES128/AES256 encryption for security

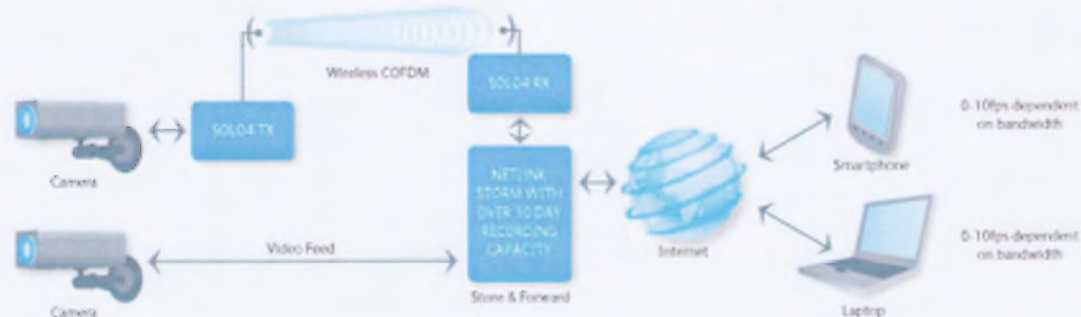
Option A – NETLink Storm receives direct video input for multicasting over Private Networks

- NETLink can be upgraded to receive direct AV feed.



Option B – NETLink Storm receives direct video input for 'store and forward' and uni-casts over the internet

- NETLink Storm offers a variety of 'Store and Forward' options enabling the capture of evidential quality video from remote locations.



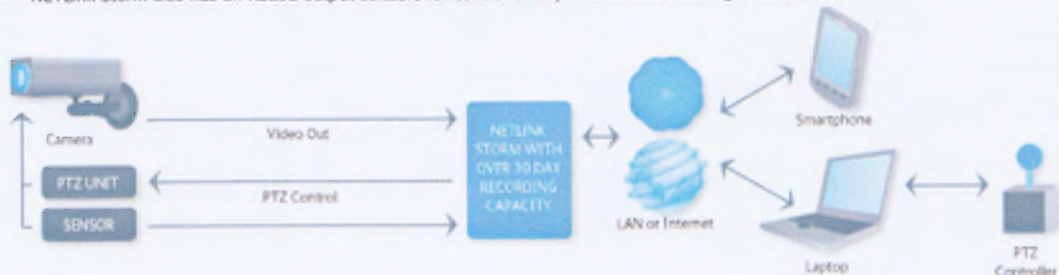
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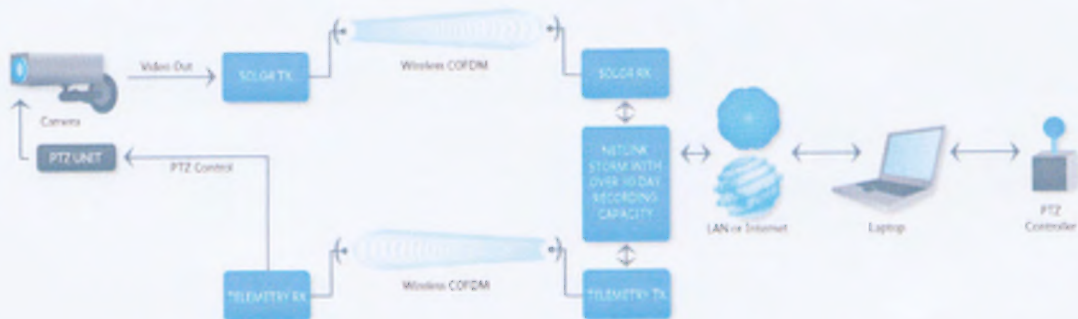
Option C - NETLink Storm can be used to view and control PTZ camera over IP Networks

- NETLink Storm also has an RS232 output suitable for control of any PTZ camera that might be connected to it.



Option D - NETLink offers a sophisticated range of time logging and trigger functions, and also fast forward and rewind viewing options

- NETLink Storm is a high capacity remote DVR system
- The NETLink Storm supports a variety of IP Solutions for integration into numerous wireless surveillance applications.



Option E – Server Based Scenarios

- The NETLink Server enables multiple simultaneous users



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Specification:

Interfaces

Power/Ethernet Breakout cable	6-way Amphenol
Power input	4 pin 08 Lemo socket
Secondary Ethernet	RJ45

Source 1	19-way Amphenol
Breakout cable	
Camera Power (12V)	Female bullet
Composite video input	BNC
Audio input 1, 2	5 pin 08 Lemo socket
PTZ interface 1	9-way D-Type
Trigger input 1	Female bullet

Source 2/Misc	22-way Amphenol
Breakout cable	
Chaining input + control	6 pin Lemo socket
PTZ interface 2	9-way D-Type
Trigger input 2	Female bullet
Internal modem port	RJ45

Audio Monitoring

Amplified Stereo output	3.5mm Stereo jack socket
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Storage

USB Hard disk port 1	USB Mini-B
USB Hard disk port 2	USB Mini-B

Configuration

USB configuration port	USB-A
RS232 configuration port	3 pin Lemo socket

RF

3G	N-Type
WiFi	2 x N-Type
COFDM out	N-Type
FM power switch	N-Type
Antennas supplied as part of the kit.	

WAN

ADSL	Robust RJ11
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Network Interfacing

Mobile data networks	2G, 3G, HSDPA
Ethernet	10/100Mb/s
WiFi	802.11a/b/g
ADSL	ADSL1, ADSL2+

Storage

Supplied Hard Disk Capacity	1 TB (2 x 500 GB)
Optional solid state storage available	

Video

Line Standard	PAL/NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2

Thumbnails

Image Standard	Encrypted JPEG
Resolution	User Controllable
Frame Rate	0-10fps depending on network bandwidth

Audio

Input	Line Level
Sample Rate	32KHz, 16KHz, 8KHz
Bits per Sample	12 or 8 bit
Encryption	
Format	AES 32 bit as standard AES 128/256 (optional)

Control

Unit Set-up configuration	PC Application via Ethernet and USB Key
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Physical

Robust Storm Case	L 439mm, W 321mm, H 166mm
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Power

DC Input	9 to 16V Reverse Polarity Protected
Power Consumption	From 10W depending on configuration

Environment

Temperature range	-10 to +50 deg C
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Product Codes:

NETLinkS-100150	NETLink Storm 1.00-1.50MHz COFDM
NETLinkS-165250	NETLink Storm 1.65-2.50MHz COFDM

Product Code Includes:

AP001694	1Gb Cobham brand USB stick - blank
AP001996	433MHz Whip Antenna N-type adaptor
AP002065	3G Antenna N-type adaptor
AP002066	WiFi Antennas N-type x 2
CA0628	External PSU Cable Assembly 1.2M
CA0629	External Breakout Cable Assembly 2M

Accessory Options:

NETPLAY-S	Software player for streaming only (MPEG2 only)
NETPLAY-SSF	Software player to fully access store and forward functions

Licensing Options:

AES128NLSMTX	AES NETLink Storm 128 Bit Encryption
AES256NLSMTX	AES NETLink Storm 256 Bit Encryption

For further information please contact:
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